

TOP SECRET 041521Z

JUN NOV 4 15 512

1

3208

OUT54378

25X1

THE FOLLOWING MESSAGES WERE INADVERTENTLY NOT SENT TO YOU AND ARE
THEREFORE REPEATED HERE FOR YOUR INFORMATION:

4 NOV 1964

HFS

B25X1

A. REF: [] 3152

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EFC

25X1

PNS

AOI

25X1

REF A [] 3700/REBIND 44

Grace (File)

B MISSION 1012

1. AFTER MUCH EFFORT [] WAS STILL UNSUCCESSFUL IN REDUCING ATTITUDE FROM HORIZON IMAGES. THUS, SUSPECTING AN ERROR IN CALIBRATION DATA OBTAINED FROM REF A, THE FOLLOWING DISCREPANCIES WERE FOUND TO EXIST:

MASTER:

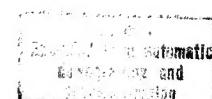
CORRECTED DATA

A. DTX PLUS 1.138	PLUS .252
DTY PLUS 1.024	MINUS 2.857
DSX PLUS .252	MINUS .407
DSY MINUS 2.857	PLUS 2.842
B. XVO MINUS .407	PLUS 1.138
YVO PLUS W 2.842	PLUS 1.024

25X1

SLAVE:

25X1



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-2-

[Redacted]

CORRECTED DATA

25X1

A. DTX MINUS .392	MINUS .260
DTY PLUS .259	PLUS 2.102
DSX MINUS .260	MINUS .140
DSY PLUS 2.102	MINUS 2.261
B. XVO MINUS .140	MINUS .392
YVO MINUS 2.261	PLUS .259

1

2. SUCH ERRORS ARE COSTLY TO [Redacted] BOTH IN MAN HOURS SPENT
 TO LOCATE THE ERROR AND DELAY IN PROVIDING CRITICAL METRICAL DATA OF
 HIGH INTELLIGENCE VALUE.

3. UNAVAILABILITY OF INSTRUMENT DATA LOG PREVENTED [Redacted] FROM
 VERIFYING MESSAGE DATA IN EARLY STAGES OF MISSION READOUT.

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B. REF: [Redacted] 3173

25X1

TOP SECRET 292152Z

3

25X1

UPON RECEIPT OF INSTRUMENT LOG FOR MISSION 1012 [Redacted] FOUND
 THAT THE SAME ERRORS IN THE HORIZON CAMERA CALIBRATION DATA (REF
 A) EXISTS IN THE LOG AS IN REF B.

1

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C. REF: [Redacted] 3194

25X1

-3-

~~TOP SECRET~~ 022137Z

25X1

1.

1. THERE ARE NUMEROUS DATA BLOCK LIGHT FAILURES ON MISSION 1012-1 AND 1012-2. THESE FAILURES HAVE CAUSED CONSIDERABLE TIME LOSS IN DETERMINATION OF FRAME TIMES FOR STELLAR REDUCTION AND FINAL FRAME EPHemeris PRODUCTION.

2.

2. MISSION 1012-1 AND -2 HAVE THE LARGEST NUMBER OF LIGHT FAILURES ENCOUNTERED TO DATE. THERE ARE SIX LIGHT FAILURES ON THE FORWARD CAMERA AND TWO ON THE AFT CAMERA.

3.

3. THE LIGHTS FAILED AFTER LAUNCH AND IN THE FOLLOWING ORDER:

CAMERA	LIGHT NO.	MILLISECOND VALUE	PASS	FRAME
FWD	12	2048	D04	60
FWD	19	262144	D06	26
AFT	12	2048	D06	80
AFT	23	4194304	D23	20
FWD	1	1	D24	6
FWD	17	65536	D39	139
FWD	16	32768	D52	34
FWD	2	2	D53	38

4.

4. THE 1 AND 2 LIGHTS ARE IMPOSSIBLE TO CORRECT AND THE MULTIPLE FAILURES IN THE LARGER BINARIES CAUSE CONSIDERABLE DIFFICULTY IN DETERMINING ACCURATE TIMES.

~~TOP SECRET~~

--END OF MESSAGE--